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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/626,535	07/27/2000	Donald F. Hooper	42390. P7876X	1214	
7590 09/28/2004			EXAMINER		
Blakely Sokoloff Taylor & Zafman LLP			ENG, D	ENG, DAVID Y	
12400 Wilshire Boulevard Seventh Floor			ART UNIT	PAPER NUMBER	
Los Angeles, CA 90025-1026			2155		
•		•	DATE MAILED: 09/28/200	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · ·	U	Application No.	Applicant(s)			
Office Action Summary			HOOPER ET AL.			
		09/626,535 Examiner	Art Unit			
	· · · · · · · · · · · · · · · · · · ·	DAVID Y. ENG	2155			
	The MAILING DATE of this communica			ldress		
Period fo		addit appears on the dover onece	with the conceptuation ==			
THE I - Exter after - If the - If NO - Failu	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNIC, usions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commun period for reply specified above is less than thirty (30) of period for reply is specified above, the maximum stature to reply within the set or extended period for reply will reply received by the Office later than three months after adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no event, however, may ication. Jays, a reply within the statutory minimum of the cory period will apply and will expire SIX (6) Months to be come.	a reply be timely filed  nirty (30) days will be considered timel  DNTHS from the mailing date of this c  ABANDONED (35 U.S.C. § 133).	ly. ommunication.		
Status						
1)⊠	Responsive to communication(s) filed	on <i>22 July 2<u>0</u>04</i> .				
	This action is <b>FINAL</b> . 2b) This action is non-final.					
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
5)	Claim(s) 1 and 3-20 is/are pending in  4a) Of the above claim(s) is/are  Claim(s) is/are allowed.  Claim(s) 1 and 3-20 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction  from Papers  The specification is objected to by the  The drawing(s) filed on is/are:  Applicant may not request that any objection  Replacement drawing sheet(s) including the	withdrawn from consideration.  on and/or election requirement.  Examiner.  a) accepted or b) objected to the drawing(s) be held in abeyone correction is required if the drawing.	ance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 C			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
2) Notice 3) Infor	nt(s)  ce of References Cited (PTO-892)   ce of Draftsperson's Patent Drawing Review (PT mation Disclosure Statement(s) (PTO-1449 or Per No(s)/Mail Date	O-948) Paper N	w Summary (PTO-413) lo(s)/Mail Date of Informal Patent Application (PT	<sup>-</sup> O-152)		

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Claim 2 has been cancelled. Newly submitted claims 18-20 have been entered. The active claims are 1 and 3-20.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1 and 3-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kirk (USP 4,709,347) in view of Mohamed (USP 6,366,998).

With respect to claim 1, 7, 15, Kirk teaches a method of processing network data (see Local Area Network 10 in Figure 1 of Kirk and lines 2-11 of column 4), in a processor (MOD) having multiple programmable multi-threaded (bit-slice) engines (see programmable micro-engine 18-04 in BIU of Figure 2 and lines 23-39 of column 4) integrated within the processor, the method comprising:

scheduling a first thread provided by the multiple programmable multi-threaded engines (see programmable micro-engines)integrated within the processor to process a first incoming block of data within a network packet (packet is inherent in network system) received at port (see transceiver 18-04 of Fig. 2) of a media access control device.

It appears that Kirk has only one (micro) engine instead of plurality. See Figures 1, 2 and 8 and the corresponding description in Mohamed. Mohamed teaches a processor having a plurality of DPUs and a scheduler. Each DPU provides a thread for processing incoming data. Each of the threads is scheduled by the scheduler to process simultaneously respective incoming data streams. From the teaching of Mohamed, it would have been obvious to a person of ordinary skill in the art to employ more than

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one engine of Kirk so that more than one thread of incoming data can be processed simultaneously.

With respect to claims 2-4 and 16, the micro-engine of Kirk and the DPU of Mohamed are inherently capable of saving and retrieving information including information labeled as state information or pointer.

With respect to claims 7 and 17 the engine of Kirk is capable of outputting (inherent) data including state information to a circuitry including circuitry labeling as transmit circuitry.

With respect to claim 8, there is no time sharing in Kirk or Mohamed.

With respect to claim 9, different threads operate out of different DPUs in Kirk also.

With respect to claims 10, 11 and 14, the wherein clauses merely state the result of the limitations recited in parent claim 7. The clauses therefore add nothing to the patentability or substance of the claims.

With respect to claim 12, Kirk has more than two DPUs.

With respect to claim 13, Kirk's DPUs run on the same code also because they are identical.

With respect to claim 18, Ethernet is well known in the art.

With respect to claim 19, port monitoring is inherent in tranceiving (see Figure 2 in Kirk).

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With respect to claim 20, header parsing is inherent in network communication.

The micro engine of Kirk is capable of performing lookup and enqueuing also (see receive FIFO in Figure 2).

DAVID Y. ENG PRIMARY EXAMINER